# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

| Complete if Known      |                         |  |  |  |
|------------------------|-------------------------|--|--|--|
| Application Number     | 09/706,227              |  |  |  |
| Filing Date            | November 3, 2000        |  |  |  |
| First Named Inventor:  | Erling H. Wold          |  |  |  |
| Art Unit               | 2626                    |  |  |  |
| Examiner Name          | Michael N.<br>Opsasnick |  |  |  |
| Attorney Docket Number | 5219P003                |  |  |  |

Sheet 1 of 8

| 110 | DAT | ENIT | $D \cap C$ | LIBA | ENTS |
|-----|-----|------|------------|------|------|

| U.S. PATENT DOCUMENTS |           |          |                                  |                     |  |  |
|-----------------------|-----------|----------|----------------------------------|---------------------|--|--|
| Examiner<br>Initials* | Cite No.1 |          | Document Number                  | Publication<br>Date | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns,<br>Lines, Where                    |
|                       |           | Number-K | ind Code <sup>2</sup> (If known) | MM-DD-YYYY          |  | Relevant Passages or<br>Relevant Figures<br>Appear |
|                       |           | US-      | 4,918,730                        | 4/17/1990           | Schulze, Klaus                                     | .,   |
|                       |           | US-      | 4,449,249                        | 5/15/1984           | Price, Robert T.                                   |  |
|                       |           | US-      | 5,247,688                        | 9/21/1993           | Ishigami   |  |
|                       |           | US-      | 5,442,645                        | 8/15/1995           | Ugon, Michel                                       |  |
|                       |           | US-      | 5,504,518                        | 4/2/1996            | Ellis, Michael D.                                  |  |
|                       |           | US-      | 5,588,119                        | 12/24/1996          | Vincent, Ronald                                    |  |
|                       |           | US-      | 5,612,974                        | 3/18/1997           | Astrachan, Paul M.                                 |  |
|                       |           | US-      | 5,613,004                        | 3/18/1997           | Cooperman, Marc, et al.                            |  |
|                       |           | US-      | 5,638,443                        | 6/10/1997           | Stefik, Mark J.                                    |  |
|                       |           | US-      | 5,692,213                        | 11/25/1997          | Goldberg, et al.                                   |  |
|                       |           | US-      | 5,701,452                        | 12/23/1997          | Siefert  |  |
|                       |           | US-      | 5,710,916                        | 1/20/1998           | Barbara, Daniel, et al.                            |  |
|                       |           | US-      | 5,724,605                        | 3/3/1998            | Wissner  |  |
|                       |           | US-      | 5,732,193                        | 3/24/1998           | Aberson  |  |
|                       |           | US-      | 5,850,388                        | 12/15/1998          | Anderson, Craig D.                                 |  |
|                       |           | US-      | 5,930,369                        | 7/27/1999           | Cox, Ingemar J., et al.                            |  |
|                       |           | US-      | 5,924,071                        | 7/13/1999           | Morgan, Oliver Frederick, et al.                   |  |
|                       |           | US-      | 5,949,885                        | 9/7/1999            | Leighton, F. Thomson                               |  |
|                       |           | US-      | 5,924,071                        | 7/13/1999           | Morgan, Oliver Frederick, et al.                   |  |
|                       |           | US-      | 5,959,659                        | 9/28/1999           | Dokic  |  |
|                       |           | US-      | 6,006,183                        | 12/21/1999          | Lai, Jennifer, et al.                              |  |
|                       |           | US-      | 6,067,369                        | 5/23/2000           | Toshio Kamei                                       |  |
|                       |           | US-      | 6,088,455                        | 7/11/2000           | Logan, James D., et al.                            |  |
|                       |           | US-      | 6,195,693                        | 2/27/2001           | Berry, Richard Edmond                              |  |
|                       |           | US-      | 6,229,922                        | 5/8/2001            | Sasakawa, et al.                                   |  |
|                       |           | US-      | 6,243,615                        | 6/5/2001            | Neway, Justin O.                                   |  |
|                       |           | US-      | 6,243,725                        | 6/5/2001            | Hempleman, James D., et al.                        |  |
|                       |           | US-      | 6,279,010                        | 8/21/2001           | Anderson, Michael R.                               |  |
|                       |           | US-      | 6,279,124                        | 8/21/2001           | Brouwer, Derek J., et al.                          |  |
|                       |           | US-      | 6,285,596                        | 9/4/2001            | Miura, Hirotomo, et al.                            |  |
|                       |           | US-      | 6,330,593                        | 12/11/2001          | Roberts, Dale Tyson, et al.                        |  |
|                       |           | US-      | 6,345,256                        | 2/5/2002            | Milsted, Kenneth Louis, et al.                     |  |
|                       |           | US-      | 6,374,260                        | 4/16/2002           | Hoffert, Eric M., et al.                           |  |
|                       |           | US-      | 6,385,596                        | 5/7/2002            | Wiser, Philip R.                                   |  |
|                       |           | US-      | 6,418,421                        | 7/9/2002            | Hurtado, Marco M., et al.                          |  |
|                       |           | US-      | 6,422,061                        | 7/23/2002           | Sunshine, Steven A.                                |  |
|                       |           | US-      | 6,438,556                        | 8/20/2002           | Malik, Nadeem, et al.                              |  |
|                       |           | US-      | 6,449,226                        | 9/10/2002           | Kumagai, Takashi                                   |  |
|                       |           | US-      | 6,452,874                        | 9/17/2002           | Otsuka, Satoshi, et al.                            |  |
|                       |           | US-      | 6,453,252                        | 9/17/2002           | Laroche, Jean                                      |  |
|                       |           | US-      | 6,460,050                        | 10/1/2002           | Pace, Mark Raymond, et al.                         |  |
|                       |           | US-      | 6,463,508                        | 10/8/2002           | Wolf, et al.                                       |  |
|                       |           | US-      | 6,477,704                        | 11/5/2002           | Cremia, Lawrence                                   |  |

Sheet

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

US-

US-

US-

US-US-

US-

2 of 8

6,487,641

6,490,279

6,496,802

6,526,411

6,550,001

6.550.011

6,591,245 6,609,093

6,609,105

6,636,965

6,654,757

6,732,180

6,771,885

6,834,308 ()

6,947,909

6,968,337

7,043,536

7,047,241

7,058,223

7,181,398

7,269,556

7,281,272

7,349,552

7,363,278

2001/0013061

2001/0027522

2001/0034219

2001/0037304

2001/0056430

2002/0123990

2002/0049760

2002/0064149

2002/0082999

2002/0087885 A1

2002/0133494

2002/0152262

2002/0156737

2002/0158737

2002/0186887

2002/0198789

2003/0014530

2003/0018709

2003/0023852

2003/0033321

2003/0061352

2003/0061490

2003/0037010

2003/0095660

|                         | Complete                           | if Known             |
|-------------------------|------------------------------------|----------------------|
|                         | Application Number                 | 09/706,227           |
| ı                       | Filing Date                        | November 3, 2000     |
|                         | First Named Inventor:              | Erling H. Wold       |
|                         | Art Unit                           | 2626                 |
|                         | Examiner Name                      |                      |
|                         | Examiner Name                      | Michael N. Opsasnick |
|                         | Attornay Docket Number             | · '                  |
|                         | Attorney Docket Number             | 5219P003             |
| 11/26/2001              | Cusson, et al.                     |                      |
| 12/23/2002              | Chen, et al.                       |                      |
| 12/17/2002              | van Zoest, Alexander T., et        | al.                  |
| 2/25/2003               | Ward                               |                      |
| 4/15/2003               | Corwin, et al.                     |                      |
| 4/15/2003               | Sims, III, J Robert                |                      |
| 7/8/2003                | Klug, John R.                      |                      |
| 8/19/2003               | Gopinath, et al.                   |                      |
| 8/19/2003               | van Zoest, Alexander T., et        | al.                  |
| 10/21/2003              | Beyda, William J.                  |                      |
| 11/25/2003              | Stern, Michael R.                  |                      |
| 5/4/2004                | Hale, John C.                      |                      |
| 8/3/2004                | Agnihotri, Lalitha, et al.         |                      |
| 12/21/2004              | Ikezoye, Vance E.                  |                      |
| 9/20/2005               | Hoke, Jr.                          |                      |
| 11/22/2005              | Wold, Erling H.                    |                      |
| 5/9/2005                | Philyaw, Jeffry Jovan              |                      |
| 5/16/2006               | Erickson, John, et al.             |                      |
| 6/6/2006                | Cox, Ingemar J., et al.            |                      |
| 2/20/2007               | Thong, et al.                      |                      |
| 9/11/2007               | Kiss, et al.                       |                      |
| 10/9/2007               | Rubin, et al.                      |                      |
| 3/25/2008               | Levy, et al.                       |                      |
| 4/22/2008               | Schmelzer, et al.                  |                      |
| 8/9/2001                | DeMartin, Frank                    |                      |
| 10/4/2001<br>10/25/2001 | Saito, Makoto Hewitt, Carl, et al. |                      |
| 11/1/2001               | Paiz, Richard S.                   |                      |
| 12/27/2001              | Yankowki, Carl J.                  |                      |
| 9/5/2002                | Abe, Mototsugu, et al.             |                      |
| 4/25/2002               | Scott, Adrian C.H.                 |                      |
| 5/30/2002               | Elliott, Isaac K., et al.          |                      |
| 6/27/2002               | Lee, Cheol-Woong                   |                      |
| 7/4/2002                | Peled, Ariel, et al.               |                      |
| 9/19/2004               | Goedken, James Francis             | 3                    |
| 10/17/2002              | Arkin, et al.                      |                      |
| 10/24/2002              | Kahn, Robert E.                    |                      |
| 10/24/2002              | Yokoyama, Ryo                      |                      |
| 12/12/2002              | Rhoads                             |                      |
| 12/26/2002              | Waldman, Julian D.                 |                      |
| 1/16/2003               | Bodin, William Kress               |                      |
| 1/23/2003               | Schrempp, James B., et             | al.                  |
| 1/30/2003               | Wold                               |                      |
| 2/13/2003               | Schrempp, James B., et             | al.                  |
| 3/27/2003               | Bohrer, Patrick Joseph             |                      |
| 3/27/2003               | Aram C. Abajian                    |                      |
| 0/00/0000               | Cabmalzar at al                    | 1                    |

2/20/2003

5/22/2003

Schmelzer, et al.

Lee, et al.

| Substitute for | r Form 1449/PTO |                         | Complete if Known     |                          |          |
|----------------|-----------------|-------------------------|-----------------------|--------------------------|----------|
|                | INFORMATI       | ON DISCLOSUF            | Application Number    | 09/706,227               |          |
|                |                 | ON DISOLOSUI            | Filing Date           | November 3, 2000         |          |
|                | STATEMEN        | T BY APPLICAN           | First Named Inventor: | Erling H. Wold           |          |
|                | (use as ma      | ny sheets as necessary) | Art Unit              | 2626                     |          |
|                |                 |                         | Examiner Name         | Michael N.<br>Opsasnick  |          |
| Sheet          |                 | 3 of 8                  |                       | Attorney Docket Number   | 5219P003 |
|                | US-             |                         |                       |                          |          |
|                | US-             | 2003/0135623            | 7/17/2003             | Schrempp, et al.         |          |
|                | US-             | 2003/0191719            | 10/9/2003             | Ginter, et al.           |          |
|                | US-             | 2003/0195852            | 10/16/2003            | Campbell, Geoff, et al.  |          |
|                | US-             | 2004/0008864            | 1/15/2004             | Watson, Stephen, et al.  |          |
|                | US-             | 2004/0010495            | 1/15/2004             | Kramer, et al.           |          |
|                | US-             | 2004/0148191            | 7/29/2004             | Hoke, Clare L. JR.       |          |
|                | US-             | 2004/0053654            | 3/18/2004             | Kokumai, Hitoshi, et al. |          |
|                | US-             | 2004/0073513            | 4/15/2004             | Stefik, Mark J., et al.  |          |
|                | US-             | 2004/0089142            | 5/13/2004             | Georges, Alain, et al.   |          |
|                | US-             | 2004/0133797            | 7/8/2004              | Arnold, Gordon K.        |          |
|                | US-             | 2004/0163106            | 8/19/2004             | Schrempp, et al.         |          |
|                | US-             | 2004/0201784            | 10/14/2004            | Dagtas, et al.           |          |
|                | US-             | 2005/0021783            | 1/27/2005             | Ishii, Hidehiro          |          |
|                | US-             | 2005/0044189            | 2/24/2005             | lkezoye, et al.          |          |
|                | US-             | 2005/0154678            | 7/14/2005             | Schmelzer, Richard A.    |          |
|                | US-             | 2005/0154680            | 7/14/2005             | Schmelzer, Richard A.    |          |
|                | US-             | 2005/0154681            | 7/14/2005             | Schmelzer, Richard A.    |          |
|                | US-             | 2005/0216433            | 9/29/2005             | William Bland, et al.    |          |
|                | US-             | 2005/0267945            | 12/1/2005             | Cohen, et al.            |          |
|                | US-             | 2006/0034177            | 2/16/2006             | Schrempp, James B.       |          |
|                | US-             | 2006/0062426            | 3/23/2006             | Levy, Kenneth L., et al. |          |
|                | US-             | 2007/0074147            | 3/29/2007             | Wold, Erling H.,         |          |
|                | US-             | 2007/0078769            | 4/5/2007              | Way, et al.              |          |
|                | US-             | 2008/0008173            | 1/10/2008             | Kanevsky, et al.         |          |
|                |                 |                         | 1 -//                 | 1                        |          |

| Examiner  | Date       |  |
|-----------|------------|--|
| Signature | Considered |  |

6/26/2008

US-

2008/0154730

Schmelzer, Richard A

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office,

Sheet

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

4 of 8

| Complete if Known |                        |                         |  |
|-------------------|------------------------|-------------------------|--|
|                   | Application Number     | 09/706,227              |  |
|                   | Filing Date            | November 3, 2000        |  |
|                   | First Named Inventor:  | Erling H. Wold          |  |
|                   | Art Unit               | 2626                    |  |
|                   | Examiner Name          | Michael N.<br>Opsasnick |  |
|                   | Attorney Docket Number | 5219P003                |  |

| FOREIGN PATENT DOCUMENTS |                          |  |                                   |  |  |                |
|--------------------------|--------------------------|--|-----------------------------------|--|--|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns,<br>Lines, Where Relevant<br>Passages or Relevant<br>Figures Appear | T <sub>6</sub> |
|                          |                          | EP0349106A1  | 1/3/1990                          | British Broadcasting Corporation                   |  |                |
|                          |                          | EP0402210 A1   | 6/1/1990                          | Bull CP8   |  |                |
|                          |                          | EP0459046  | 4/12/1999                         | International Business Machines                    |  |                |
|                          |                          | EP0517405A2  | 5/22/1992                         | NCR International, Inc.                            |  |                |
|                          |                          | EP0689316 A2   | 12/27/1995                        | AT & T Corporation                                 |  |                |
|                          |                          | EP0731446  | 9/11/1996                         | Generalmusic S.p.A.                                |  |                |
|                          |                          | EP0859503  | 8/19/1998                         | NEC Corporation                                    |  |                |
|                          |                          | WO 96/36163 A3   | 11/14/1996                        | Digimarc Corporation                               |  |                |
|                          |                          | WO 98/20672 A3   | 5/14/1998                         | Monolith Co., Ltd.                                 |  |                |
|                          |                          | WO 00/05650 A1   | 2/3/2000                          | Raytheon Company                                   |  |                |
|                          |                          | WO 00/39954 A1   | 7/6/2000                          | Kent Ridge Digital Labs                            |  |                |
|                          |                          | WO 00/63800 A1   | 10/26/2000                        | Oracle Corporation                                 |  |                |
|                          |                          | WO 01/23981 A1   | 4/5/2001                          | Hilton, David                                      |  |                |
|                          |                          | WO 2001/062004   | 8/23/2001                         | Audible Magic                                      |  |                |
|                          |                          | <b>W</b> O 02/03203  | 1/10/2002                         | Terraspring, Inc.                                  |  |                |
|                          |                          | WO 02/082271 A1  | 10/17/2002                        | Audible Magic                                      |  |                |
|                          |                          | WO 03/007235 A1  | 1/23/2003                         | Audible Magic                                      |  |                |
|                          |                          | WO 03/009149 A1  | 1/30/2003                         | Audible Magic                                      |  |                |
|                          |                          | WO 03/036496 A1  | 5/1/2003                          | Audible Magic                                      |  |                |
|                          |                          | WO 03/067459 A1  | 8/14/2003                         | Audible Magic                                      |  |                |
|                          |                          | WO 03/091990 A1  | 11/6/2003                         | Shazam Entertainment Ltd.                          |  |                |
|                          |                          | WO 04/044820 A1  | 5/27/2004                         | Koninklijke Philips Electronics                    |  |                |
|                          |                          | WO 04/070558 <b>A</b> 2  | 8/19/2004                         | Audible Magic                                      |  |                |
|                          |                          | WO 06/015168 A2  | 2/9/2006                          | Audible Magic                                      |  |                |

| Examiner  | Date Considered |  |
|-----------|-----------------|--|
| Signature |                 |  |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450**.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

| Complete if Known     |                      |  |  |
|-----------------------|----------------------|--|--|
| Application Number    | 09/706,227           |  |  |
| Filing Date           | November 3, 2000     |  |  |
| First Named Inventor: | Erling H. Wold       |  |  |
| Art Unit              | 2626                 |  |  |
| Examiner Name         | Michael N. Opsasnick |  |  |
| Au D L LNL L          | F0.40 D0.00          |  |  |

| (use as many sheets as necessary)  |  | many sheets as necessary)   | Art Unit   | 2626  |                |
|--|--|---|--|---|----------------|
|  |  | Examiner Name Michael N. Opsasnick  |  | Michael N. Opsasnick  |                |
| Sheet  |  | 5 of 8  | Attorney Docket Number   | 5219P003  |                |
| NON PATENT LITERATURE DOCUMENTS  Examiner Cite Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the                                      |  |   |  |   |                |
| Initials* No <sup>1</sup> item (book, magazine, jour   |  |   | r (in CAPITAL LETTERS), title of the a<br>journal, serial, symposium, catalog, et<br>per(s), publisher, city and/or country wh | c.), date, page(s), volume-issue                                      | T <sup>2</sup> |
| BERITELLI, F., et al., "Multilayer Chaotic Encryption for switching Networks," IEEE, Vol. 2August 2000, pages  |  |   |  |   |                |
|  |  | Blum, T., Keislar, D., Wh<br>Retrieval," Prodeedings                                    | eaton, J., and Wold, E., "Audio Da<br>of the 1995 International Joint Conf<br>elligent Multimedia Information Reti             | tabases with Content-Based ierence on Artificial Intelligence         |                |
| BRESLIN, Pat, et al., Relatable Website, "Emusic uses Relata solution, TRM, to signature its music catabblog for MusicBrain http://www.relatable.com/news/pressrelease/001017.release.html |  |   |  | ottober 17, 2000.   |                |
|  |  |   | ndoni, P., "Timbre Characterization<br>e 1994 International Computer Mus   |   |                |
|  |  |   | Automatic Indexing of a Sound Databa<br>rnal, 18:3, pp. 53-65, Fall 1994.  | se Using Self-Organizing Neural                                       |                |
| Fischer, S., Lienhart, R., and Effelsberg, W., "Automatic Recognition of Film Gen<br>Informatik, Jun. 1995, Universitat Mannheim, Praktische Informatik IV, L15, 16, E                     |  |   |  |   |                |
| Foote, J., "A Similarity Measure for Automatic Audio Classification," In National University of Singapore, 1977, Singapore.  |  |   | -  |   |                |
|  |  |   | "Content Based Retrieval of Audio," T<br>llongong, Australia, No date.   | he Institute for Telecommunication                                    |                |
|  |  |   | st Audio Hashing for Content Identifica<br>Content Based Multimedia and Indexin  |   |                |
|  |  |   | ionality Reduction or Similarity Search<br>Vol.75, Nos. 1/2 July/August 1999, pp.  |   |                |
|  |  | Proceedings of the 1995 Int   | ton, J., and Wold, E., "Audio Analysis f<br>ernational Computer Music Conferenc  | e.  |                |
|  |  | OHTSUKI, K., et al., "Topic<br>speech," Proceedings IEEE<br>pp. 527-534, N.Y., N.Y., US | extraction based on continuos speech<br>E Workshop on Automated Speech Re<br>A.  | n recognition in broadcast-news<br>cognition and Understanding, 1997, |                |
|  |  | Packethound Tech Specs,<br>Phtechspecs.shtml, 2002.                                     | www.palisdesys.com/products/packeth  | nount/tck specs/prod  |                |
|  |  |   |  |   |                |
|  |  |   |  |   |                |
| Examiner<br>Signature  |  |   |  | Date Considered   |                |

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

| Complete if Known |                        |                      |  |  |  |
|-------------------|------------------------|----------------------|--|--|--|
|                   | Application Number     | 09/706,227           |  |  |  |
|                   | Filing Date            | November 3, 2000     |  |  |  |
|                   | First Named Inventor:  | Erling H. Wold       |  |  |  |
|                   | Art Unit               | 2626                 |  |  |  |
|                   | Examiner Name          | Michael N. Opsasnick |  |  |  |
|                   | Attorney Docket Number | 5219P003             |  |  |  |

|                       |  | Art Unit   | 2626                 |  |  |  |
|-----------------------|--|--|----------------------|--|--|--|
|                       |  | Examiner Name  | Michael N. Opsasnick |  |  |  |
| Sheet                 | 6 Of 8   | Attorney Docket Number   | 5219P003             |  |  |  |
|                       | "How does PacketHound work?", www.palisdesys.com/products/packethound/how_does_it_work/prod_Pghhow.shtml 2002.   |  |                      |  |  |  |
|                       | PELLOM, B. et al., "Fast Likelihood Computation Techniques in Nearest-Neighbor search for Continuous Speech Recognition.", IEEE Signal Processing Letters, Vol. 8, pp. 221-224 August 2001.  |  |                      |  |  |  |
|                       | Ken C. Pohlmann, "Principle<br>Publishing, no date.  | Ken C. Pohlmann, "Principles of Digital Audio", SAMS/A Division of Prentice Hall Computer Publishing, no date. |                      |  |  |  |
|                       | Scheirer, E., Slaney, M., "Construction and Evaluation of a Robust Multifeature Speech/Music Discriminator," pp. 1-4, Proceedings of ICASSP-97, Apr. 2-24, Munich, Germany.  Scheirer, E.D., "Tempo and Beat Analysis of Acoustic Musical Signals," Machine Listening Group, E15-401D MIT Media Laboratory, pp. 1-21, Aug. 8, 1997, Cambridge, MA  |  |                      |  |  |  |
|                       |  |  |                      |  |  |  |
|                       | Schneier, Bruce, Applied Cryptography, Protocols, Algorithms and Source Code in C, Chapter 2 Protocol Building Blocks, 1996, pages 30-31.  SMITH, Alan J., "Cache Memories," Computer Surveys, September 1982, University of California, Berkeley, California, Vol. 14, No. 3, pp. 1-61  Vertegaal, R. and Bonis, E., "ISEE: An Intuitive Sound Editing Environment," Computer Music Journal, 18:2, pp. 21-22, Summer 1994.  |  |                      |  |  |  |
|                       |  |  |                      |  |  |  |
|                       |  |  |                      |  |  |  |
|                       | WANG, Yao, et al., "Multimedia Content Analysis," IEEE Signal Processing Magazine, pp.12-36, November 2000, IEEE Service Center, Piscataway, N.J., USA.  |  |                      |  |  |  |
|                       | WOLD, Erling, et al., "Content Based Classification, Search and Retrieval of Audio," IEEE Multimedia, Vol. 3, No. 3, pp. 27-36, 1996 IEEE Service Center, Piscataway, N.J., USA.  ZAWODNY, Jeremy, D., "A C Program to Compute CDDB discids on Linus and FreeBSD," [internet] http://jeremy.zawodny.com/c/discid-linux-1.3tar.gz, 1 page, April 14, 2001, retrieved July 17, 2007.  European Patent Application No. 02752347.1, Supplementary European Search Report Dated May 8, 2006, 4 pages. (5219P004EP)  European Patent Application No. 02756525.8, Supplementary European Search Report Dated June 28, 2006, 4 pages. (5219P005EP)  European Patent Application No. 02782170, Supplementary European Search Report Dated February 7, 2007, 4 pages. (5219P005XEP)  European Patent Application No. 02725522.3, Supplementary European Search Report Dated May 12, 2006, 2 Pages (5219P007EP)  PCT Search Report PCT/US02/10615, International Search Report dated August 7, 2002, 2 Pages. (5219P007PCT) |  |                      |  |  |  |
|                       |  |  |                      |  |  |  |
|                       |  |  |                      |  |  |  |
|                       |  |  |                      |  |  |  |
|                       |  |  |                      |  |  |  |
|                       |  |  |                      |  |  |  |
|                       |  |  |                      |  |  |  |
| Examiner<br>Signature |  |  | Date<br>Considered   |  |  |  |

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

| Сот                    | Complete if Known    |  |  |
|------------------------|----------------------|--|--|
| Application Number     | 09/706,227           |  |  |
| Filing Date            | November 3, 2000     |  |  |
| First Named Inventor:  | Erling H. Wold       |  |  |
| Art Unit               | 2626                 |  |  |
| Examiner Name          | Michael N. Opsasnick |  |  |
| Attorney Docket Number | 5219P003             |  |  |

| <u> </u>    |   | Examiner Name  | Michael N. Opsasnick     |  |  |  |
|-------------|---|--|--------------------------|--|--|--|
| Sheet       | 7 Of 8  | Attorney Docket Number   | 5219P003                 |  |  |  |
|             | PCT Search Report PCT/US02/3  |  | eport dated December 16, |  |  |  |
|             | 2002, Pages 1-4. (5219P005XPCT)   |  |                          |  |  |  |
|             | PCT Search Report PCT/US04/02748, International Search Report and Written Opinion dated August 20, 2007, 6 Pages. (5219P008PCT)   |  |                          |  |  |  |
|             |   |  |                          |  |  |  |
|             | PCT Search Report PCT/US05/2  | PCT Search Report PCT/US05/26887, International Search Report dated May 3, 2006, 2 Pages. (5219P009PCT)  PCT Search Report PCT/US08/09127, International Search Report dated October 30, 2008, |                          |  |  |  |
|             |   |  |                          |  |  |  |
|             | PCT Search Report PCT/US08/0  |  |                          |  |  |  |
|             | 8 Pages. (5219P011PCT)  |  |                          |  |  |  |
|             |   | Audible Magic Office Action for 09/511,632 () mailed 12/4/02   |                          |  |  |  |
|             |   | Audible Magic Office Action for 09/511,632 (P001) mailed 5/13/03   |                          |  |  |  |
|             | Audible Magic Office Action for 09/511,632 mailed 8/27/03   |  |                          |  |  |  |
|             | Audible Magic Office Action for 0   |  |                          |  |  |  |
|             | Audible Magic Notice of Allowand  |  |                          |  |  |  |
|             | Audible Magic Notice of Allowand  |  |                          |  |  |  |
|             | Audible Magic Notice of Allowance for 10/955,841 mailed 3/23/07  Audible Magic Notice of Allowance for 10/955,841 mailed 9/11/07  |  |                          |  |  |  |
|             |   |  |                          |  |  |  |
|             | Audible Magic Notice of Allowance for 10/955,841 mailed 2/25/08   |  |                          |  |  |  |
|             | Audible Magic Office Action for 08/897,662 mailed 8/13/98   |  |                          |  |  |  |
|             | <u>~</u>  | Audible Magic Notice of Allowance for 08/897,662 mailed 1/29/99  |                          |  |  |  |
|             | Audible Magic Office Action for 10/192,783 mailed 12/13/04  |  |                          |  |  |  |
|             | Audible Magic Notice of Allowance for 10/192,783 mailed 6/7/05  Audible Magic Notice of Allowance for 11/239,543 (P004C) mailed 4/23/08   |  |                          |  |  |  |
|             |   |  |                          |  |  |  |
|             | Audible Magic Office Action for 09/910,680 mailed 11/17/04  |  |                          |  |  |  |
|             | Audible Magic Office Action for 09/910,680 mailed 5/16/05   |  |                          |  |  |  |
|             | Audible Magic Office Action for 09/910,680 mailed 9/29/05   |  |                          |  |  |  |
|             | Audible Magic Office Action for 09/910,680 mailed 6/23/06   |  |                          |  |  |  |
|             | Audible Magic Office Action for 09/910,680 mailed 8/8/06  |  |                          |  |  |  |
|             | Audible Magic Office Action for 09/910,680 mailed 1/25/07  Audible Magic Office Action for 09/910,680 mailed 12/5/07  Audible Magic Office Action for 09/999,763 mailed 4/6/05  Audible Magic Office Action for 09/999,763 mailed 10/6/05  Audible Magic Office Action for 09/999,763 mailed 4/7/06 |  |                          |  |  |  |
|             |   |  |                          |  |  |  |
|             |   |  |                          |  |  |  |
|             |   |  |                          |  |  |  |
|             | Audible Magic Office Action for 09/999,763 mailed 10/6/06  Audible Magic Office Action for 09/999,763 mailed 3/7/07   |  |                          |  |  |  |
|             |   |  |                          |  |  |  |
|             | Audible Magic Office Action for 0   |  |                          |  |  |  |
|             | Audible Magic Office Action for 0   |  |                          |  |  |  |
|             | Audible Magic Office Action for 0   |  |                          |  |  |  |
|             | Audible Magic Office Action for 0   |  |                          |  |  |  |
|             | Audible Magic Office Action for 10/072,238 mailed 5/3/05  |  |                          |  |  |  |
|             | Audible Magic Office Action for 1   |  |                          |  |  |  |
|             | Audible Magic Office Action for 1   | 0/072,238 mailed 4/25/06   |                          |  |  |  |
| Examiner    |   |  | Date                     |  |  |  |
| Signature   |   |  | Considered               |  |  |  |
|             |   |  |                          |  |  |  |
| J.G. attare |   |  | Constant                 |  |  |  |

| Substitute for  | Form 1449/PTO   |                       | Co                        | mplete if Known |  |  |
|---|---|-----------------------|---------------------------|-----------------|--|--|
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary) |   | Application Number    | 09/706,227                |                 |  |  |
|   |   | Filing Date           | November 3, 2000          |                 |  |  |
|   |   | First Named Inventor: | Erling H. Wold            |                 |  |  |
|   |   | Art Unit              | 2626                      |                 |  |  |
|   |   | Examiner Name         |                           |                 |  |  |
|   |   |                       | Michael N. Opsasnick      |                 |  |  |
| Sheet   | 8 of 8  |                       | Attorney Docket Number    | 5219P003        |  |  |
|   |   |                       | 0/072,238 mailed 9/19/07  |                 |  |  |
|   |   |                       | 0/072,238 mailed 4/7/08   |                 |  |  |
|   |   |                       | 0/072,238 mailed 10/1/08  |                 |  |  |
| Audible Magic Office Action for 11/116,71                                       |   |                       |                           |                 |  |  |
|   |   |                       | 1/116,710 mailed 4/8/05   |                 |  |  |
|   | Audible Magic Office Action for 11/116,710 mailed 10/7/05   |                       |                           |                 |  |  |
|   | Audible Magic Office Action for 11/116,710 mailed 4/20/06  Audible Magic Office Action for 11/116,710 mailed 7/31/06        |                       |                           |                 |  |  |
|   |   |                       | 11/116,710 mailed 1/16/07 |                 |  |  |
|   |   |                       |                           |                 |  |  |
|   | Audible Magic Notice of Allowance for 12/042,023 mailed 12/29/08  Audible Magic Office Action for 11/048,307 mailed 8/22/07 |                       |                           |                 |  |  |
|   |   |                       | 1/048,307 mailed 5/16/08  |                 |  |  |
|   |   |                       | 1/048,308 mailed 2/25/08  |                 |  |  |
|   |   |                       | 1/048,338 mailed 4/18/07  |                 |  |  |
|   |   |                       | 1/048,338 mailed 10/11/07 |                 |  |  |
|   |   |                       | 1/048,338 mailed 1/14/08  |                 |  |  |
|   |   |                       | 1/048,338 mailed 7/9/08   |                 |  |  |
|   |   |                       | 1/048,338 mailed 1/7/09   |                 |  |  |
|   |   |                       | 2/035,599 mailed 11/17/08 |                 |  |  |
|   |   |                       | 2/035,609 mailed 12/29/08 |                 |  |  |
|   |   |                       | 0/356,318 mailed 5/24/06  |                 |  |  |
|   |   |                       | 0/356,318 mailed 11/2/06  |                 |  |  |
|   | Audible Magic O   | fice Action for 1     | 0/356,318 mailed 4/11/07  |                 |  |  |
|   | Audible Magic O   | fice Action for 1     | 0/356,318 mailed 11/1/07  |                 |  |  |
|   | Audible Magic O   | fice Action for 1     | 0/356,318 mailed 5/9/08   |                 |  |  |
|   | Audible Magic O   | fice Action for 1     | 0/356,318 mailed 1/6/09   |                 |  |  |
|   |   |                       | 1/191,493 mailed 7/17/08  |                 |  |  |
|   | Audible Magic O   | fice Action for 1     | 1/191,493 mailed 1/9/09   |                 |  |  |

| Examiner  | Date       |  |
|-----------|------------|--|
| Signature | Considered |  |

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SENT FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.